

Fig. 1

2/12

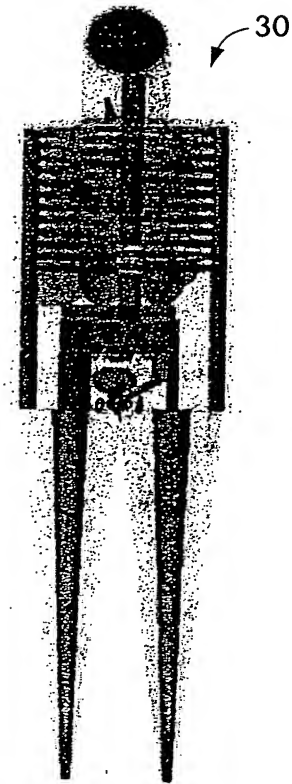


Fig. 2

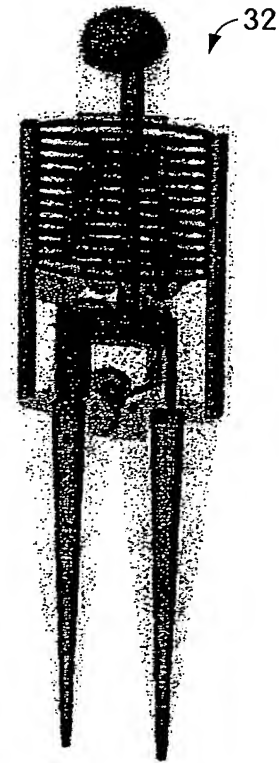


Fig. 3

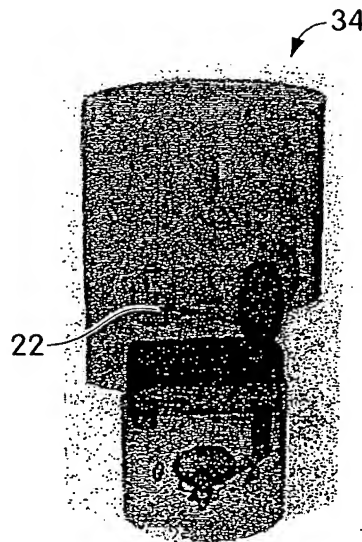


Fig. 4

3/12

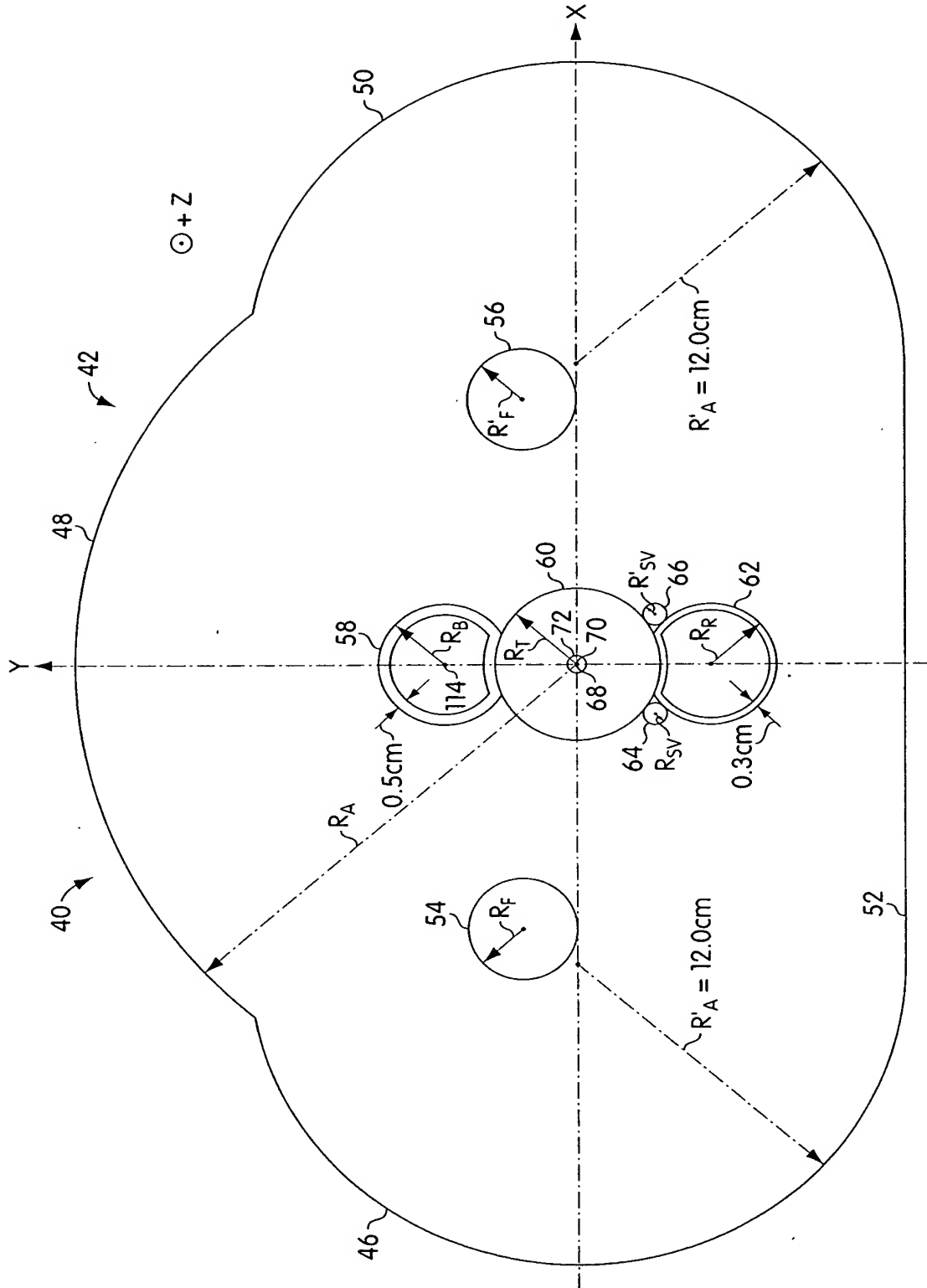


Fig. 5

4/12

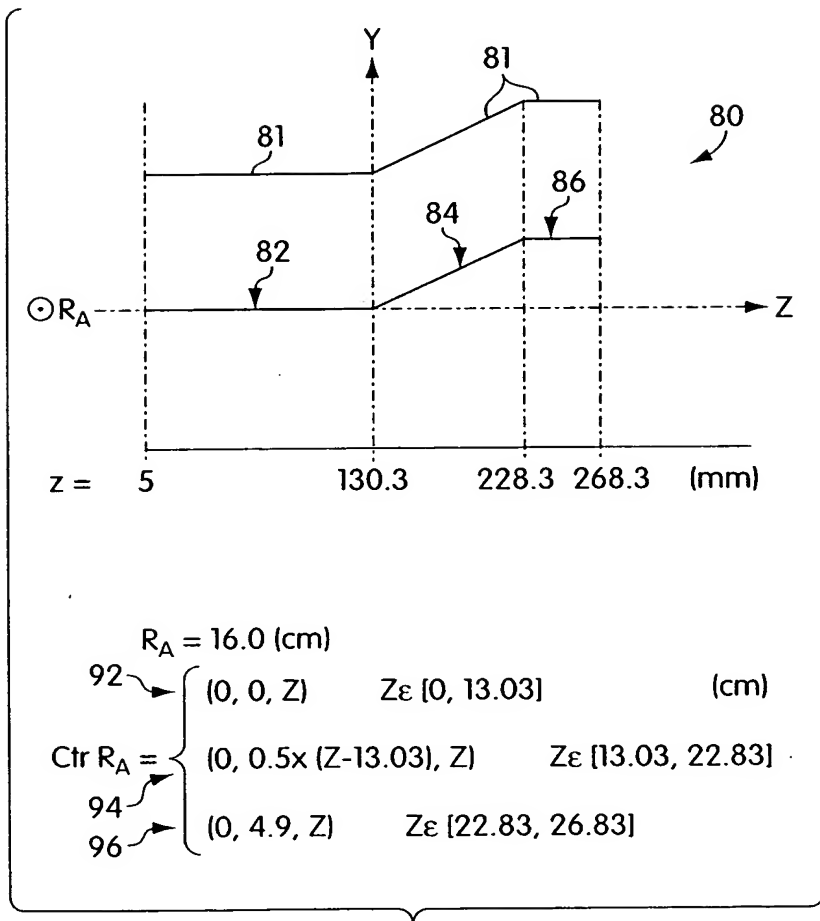


Fig. 6

5/12

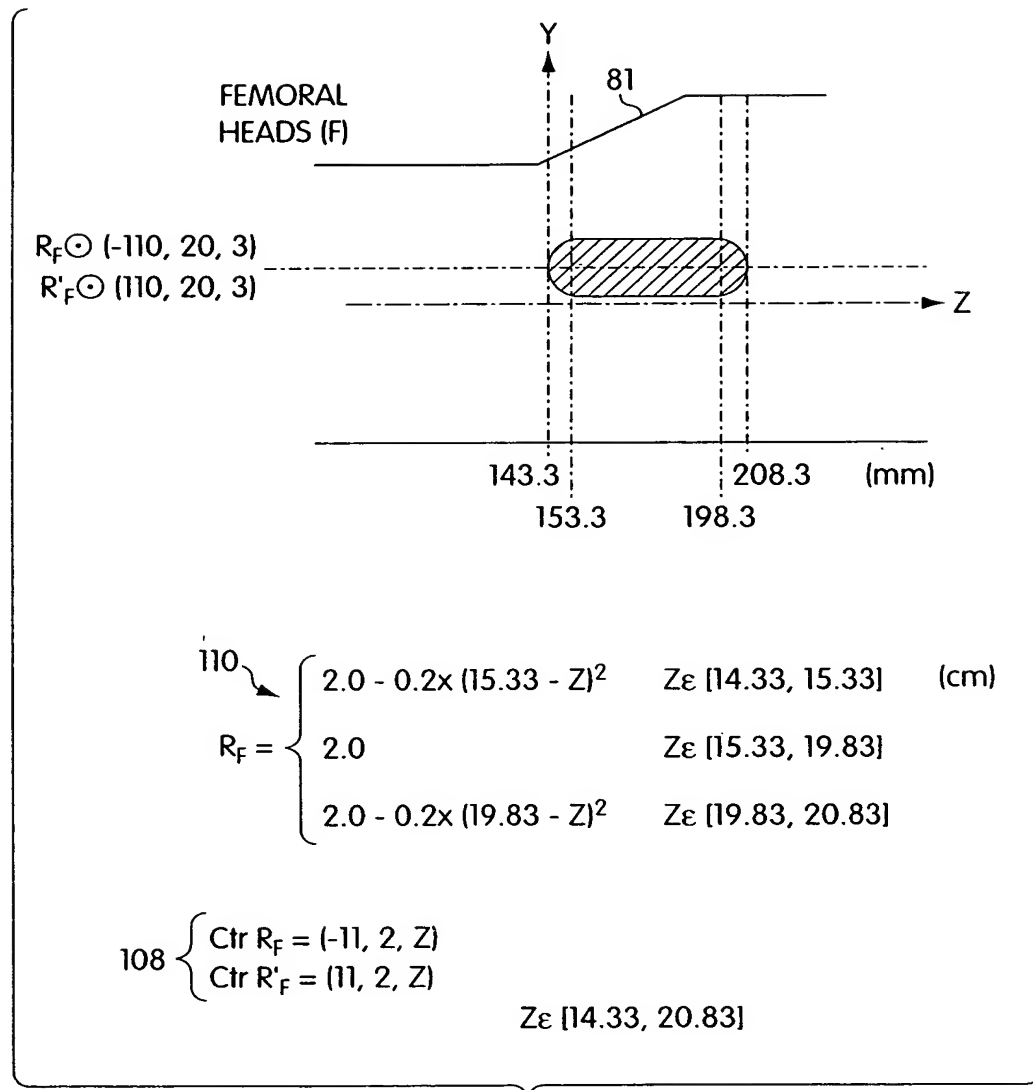
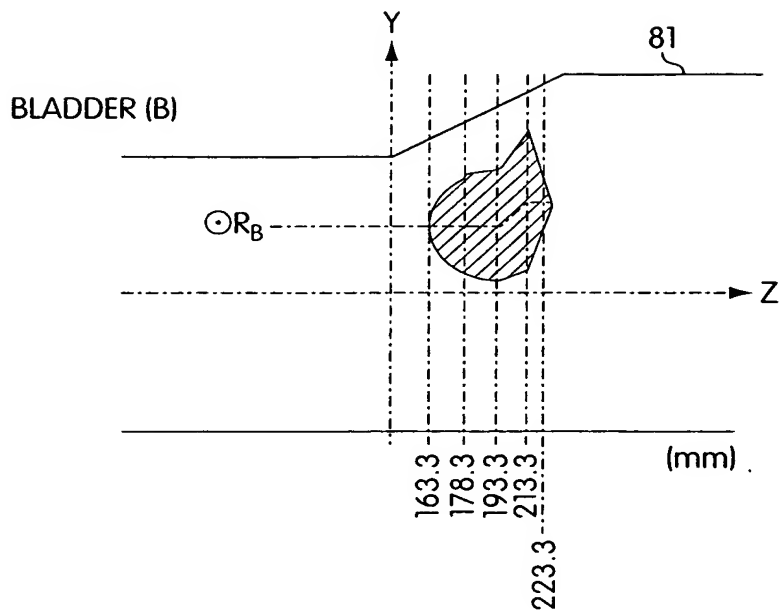


Fig. 7

6/12



$$R_B = \begin{cases} 2.5 \times (Z - 16.33) & Z \in [16.33, 17.33] \\ 2.5 + 0.5 (Z - 17.33) & Z \in [17.33, 21.33] \\ 6.0 - 1.5 \times (Z - 19.33) & Z \in [21.33, 22.33] \end{cases} \quad (\text{cm})$$

$$\text{Ctr } R_B = \begin{cases} (0, 5.0, Z), & Z \in [16.33, 19.33] \\ (0, 5.0 + (Z - 19.33), Z) & Z \in [19.33, 21.33] \\ (0, 7.0, Z) & Z \in [21.33, 22.83] \end{cases}$$

Fig. 8

7/12

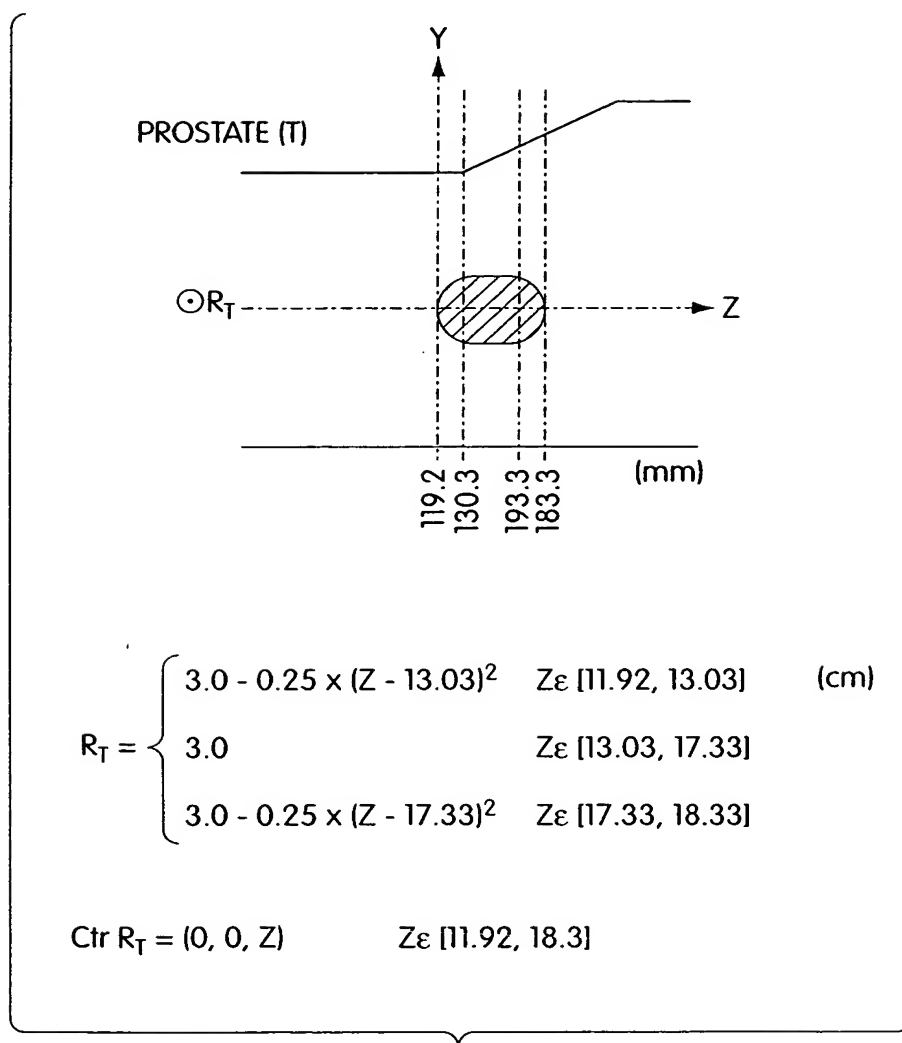


Fig. 9

8/12

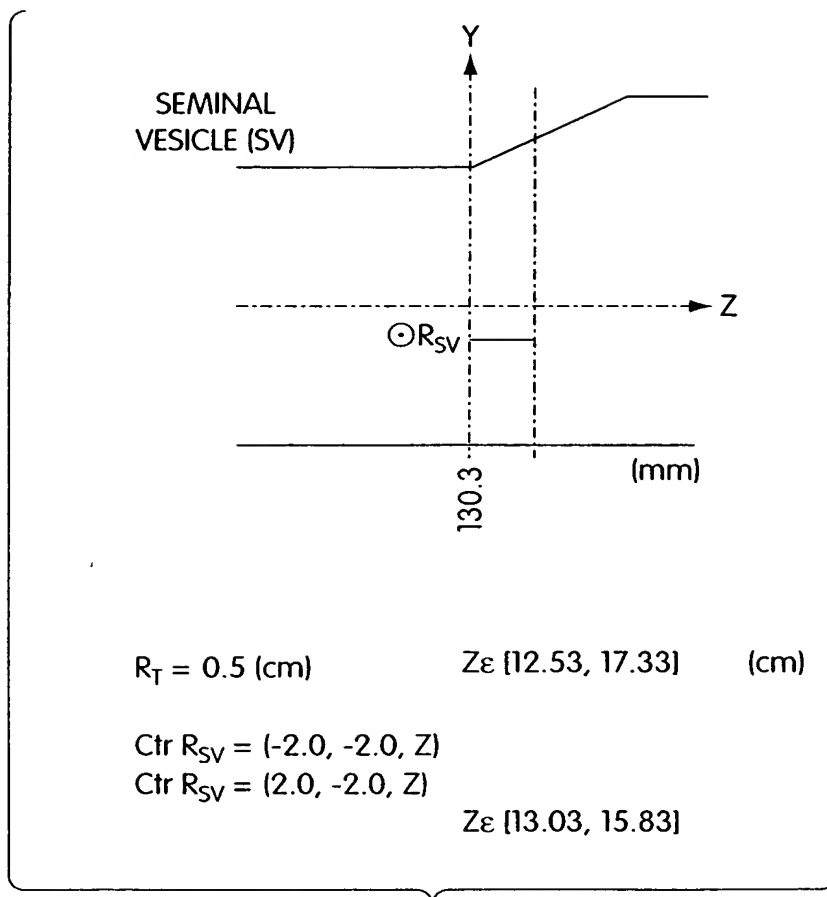
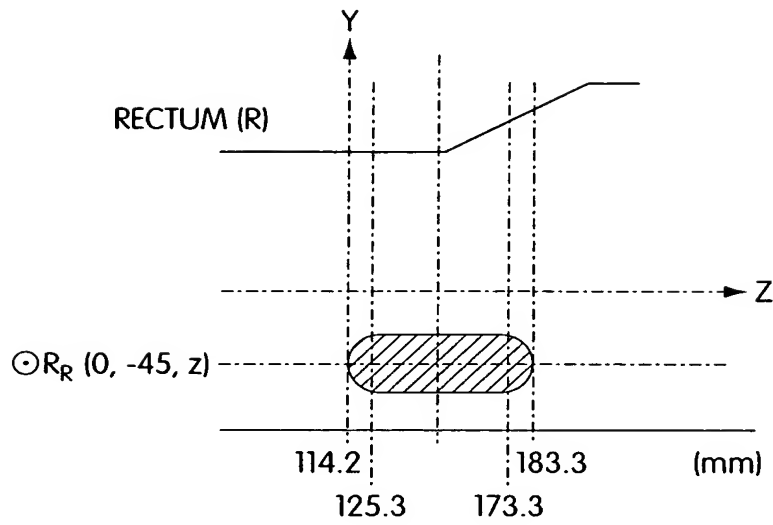


Fig. 10

9/12



$$R_R = \begin{cases} 2.0 - 0.1 \times (12.53 - Z)^2 & Z \in [11.42, 12.53] \\ 2.0 & Z \in [12.53, 17.33] \\ 2.0 - 0.1 \times (Z - 17.33)^2 & Z \in [17.33, 18.33] \end{cases} \quad (\text{cm})$$

$$\text{Ctr } R_R = (0, -4.5, Z) \quad Z \in [11.42, 18.33]$$

Fig. 11

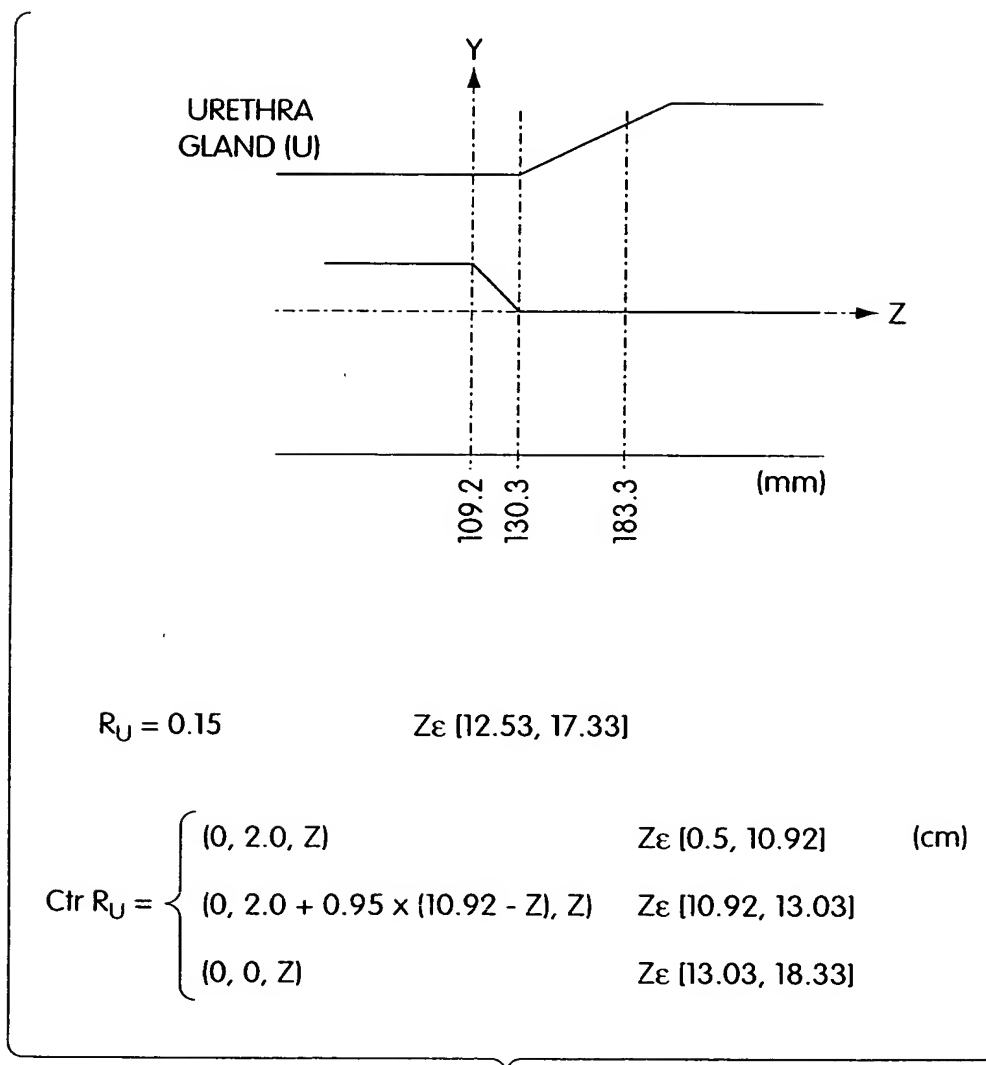


Fig. 12

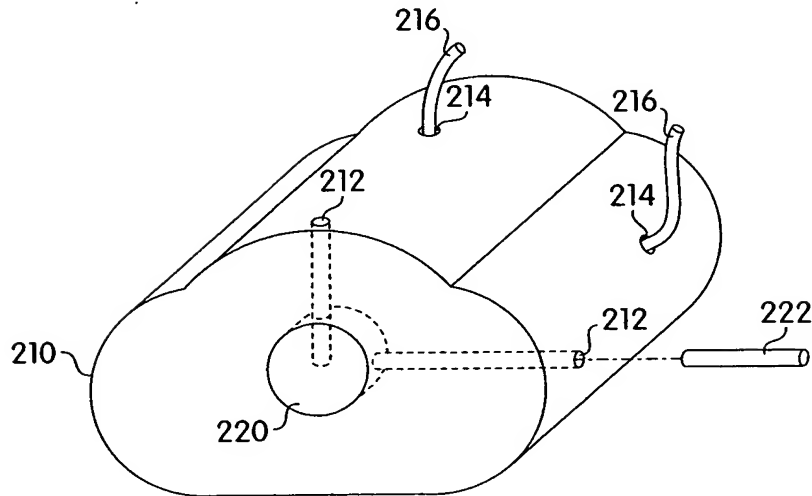


Fig. 13

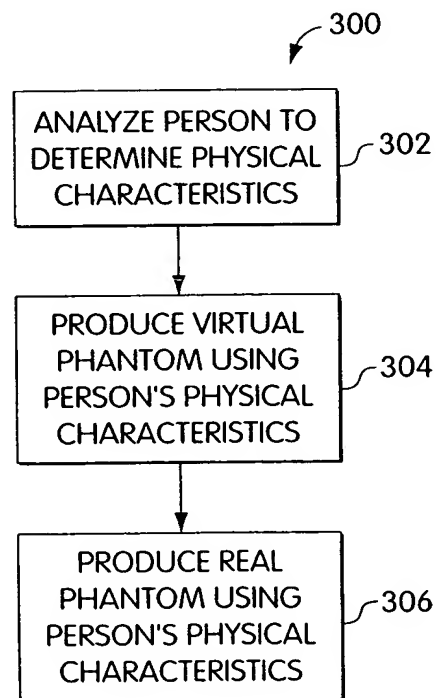


Fig. 14

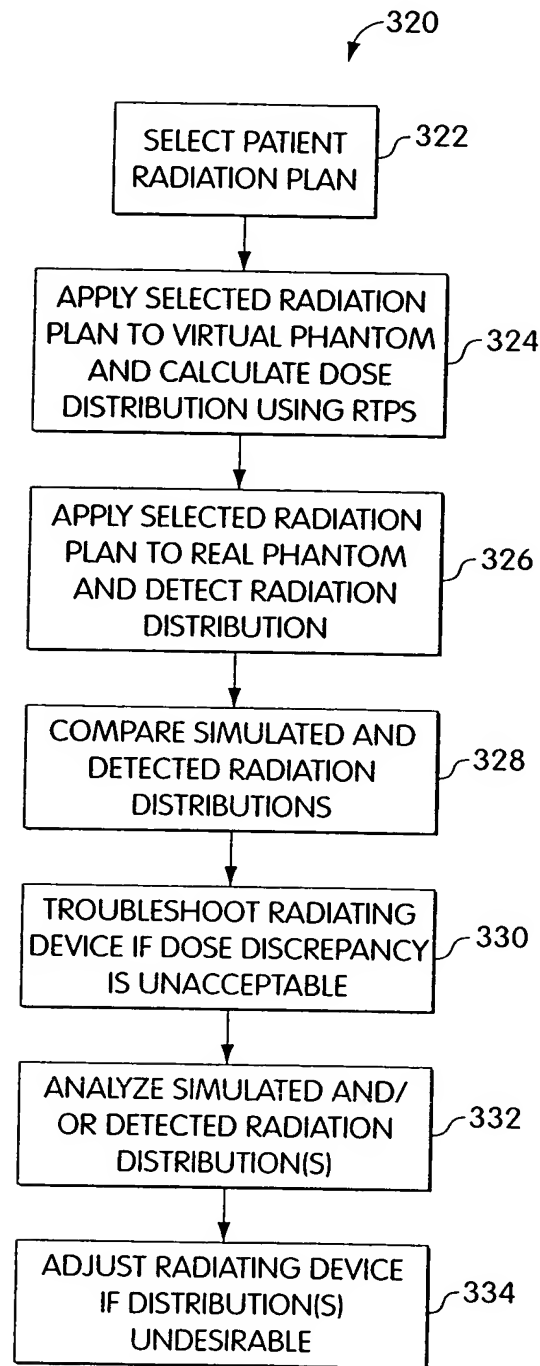


Fig. 15

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